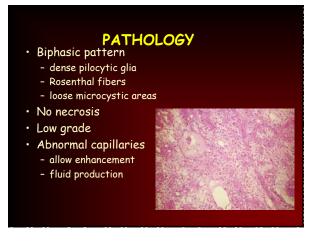
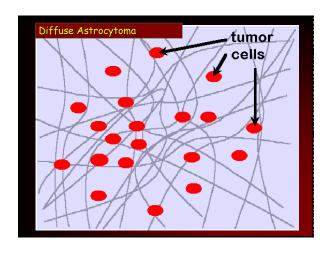
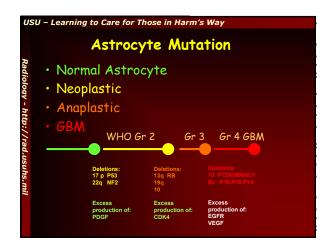


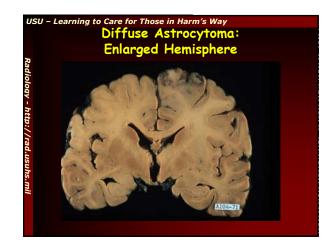
PILOCYTIC ASTROCYTOMA Radiology Cerebellum, Diencephalon rare in BS or Cerebrum Majority have significant "cyst" "Cyst and Mural Nodule" part of lining does NOT enhance Nodule may be heterogeneous Exceptional purely solid Nodule NOT hyperdense Calcification in 5-25%

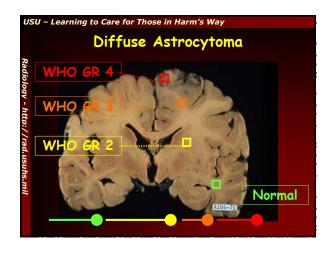


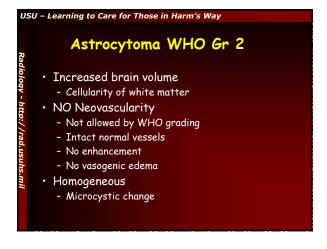


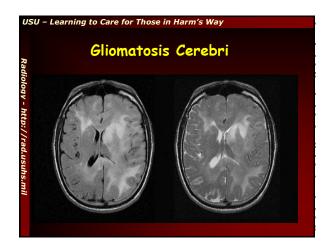




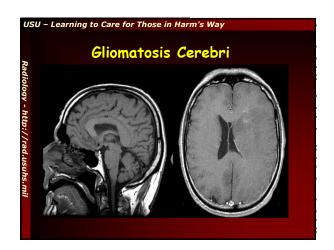


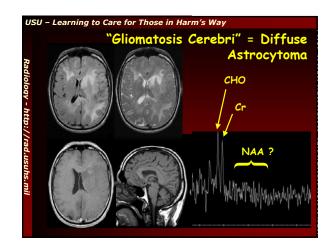


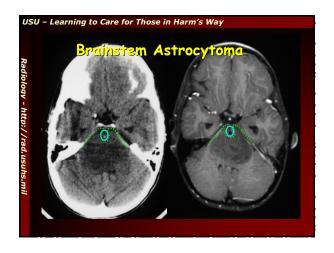


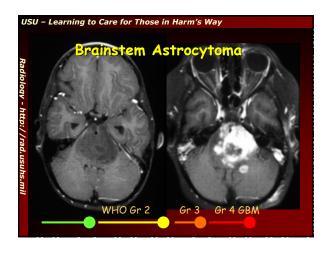






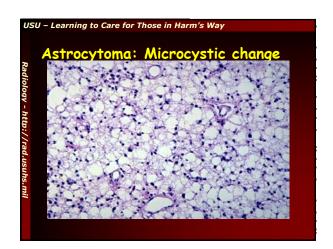












Primary CNS Neoplasms

Primary

Primary

Primary

Primary

Intraaxial

Astrocytoma (Glioma)

Circumscribed

Diffuse

Lymphoma

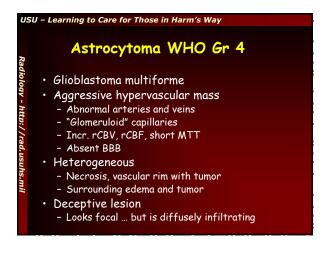
Neuronal

Extraaxial

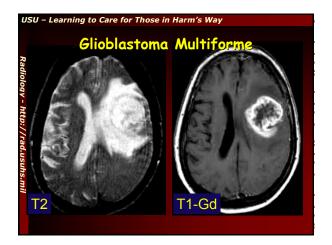
Meningioma

Schwannoma

Pituitary

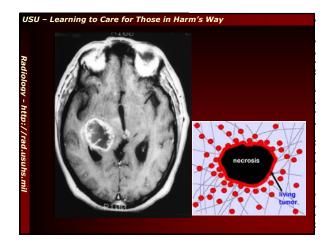


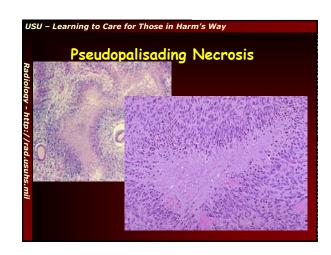


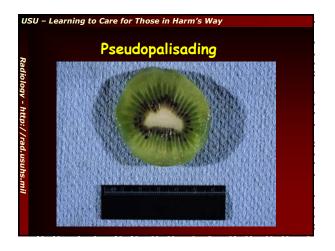


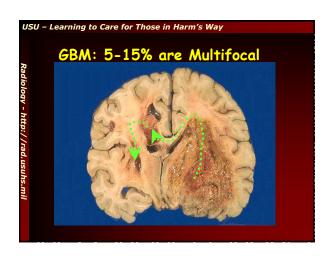
Diffuse Astrocytoma Spread

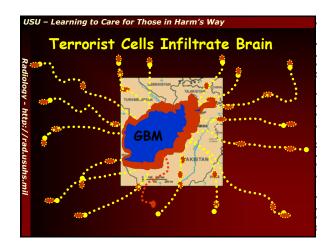
• We all see the enhancing hypercellular and hypervascular RIM
• Microscopically, cells spread through the white matter
• Corona of vasogenic edema has tumor
• But, tumor may extend beyond area of T2 abnormality
• MRS, DTI, Anisotropy may help

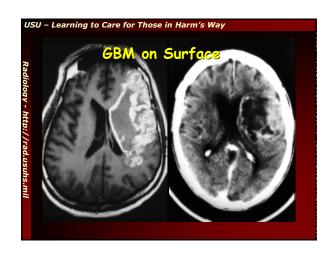


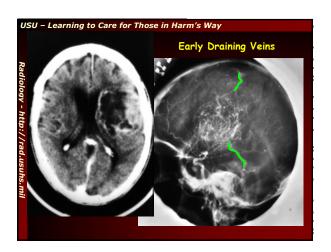














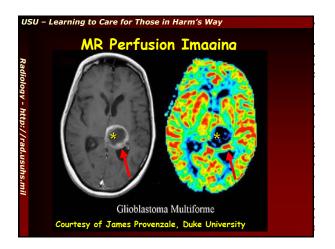


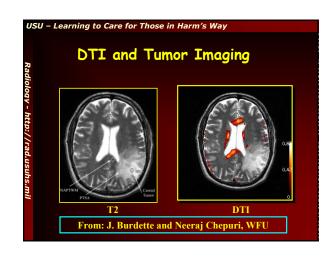
New Tools for Grading and Staging

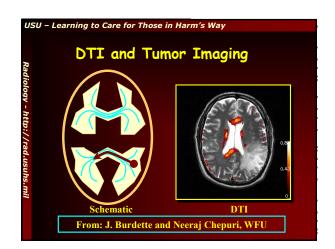
Radiology
- Perfusion - rCBV
- Diffusion and DTI
- Spectroscopy
- PET/SPECT
- Monoclonal Ab.

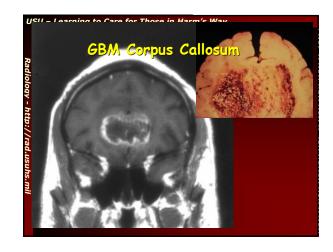
PET/SPECT
- Monoclonal Ab.

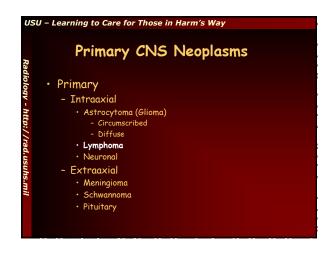
PET/SPECT
- Monoclonal Ab.

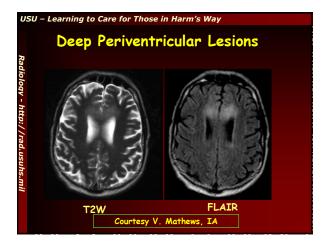


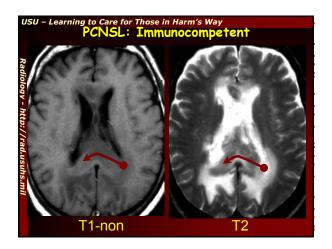


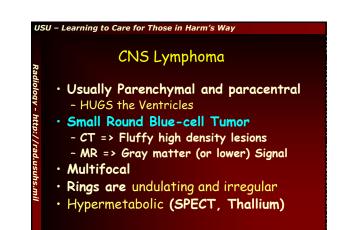


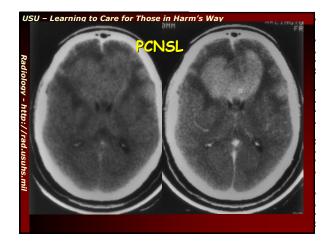












Micro Pathology

DENSELY CELLULAR

Perivascular infiltration
Increased RETICULIN fibers
HIGH N/C (nuclear/cytoplasm)
Small Round Blue Cell Tumor
High attenuation/low signal intensity



